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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/886,878	06/21/2001	Jae-Wook Lee	678-679 (P9676)	6073

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EXAMINER

PEREZ, ANGELICA

ART UNIT	PAPER NUMBER
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2684

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DATE MAILED: 03/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/886,878

Applicant(s)

LEE, JAE-WOOK

Examiner

Angelica M. Perez

Art Unit

2684

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 21 June 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-13 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-4, 6-7, 9 and 11-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over by Whang (Whang et al.; US Patent No.: 6,609,008 B1) in view of Ericsson (Ericsson, Ted; US patent No.: 6,223,047 B1).

Regarding claims 1, 4 and 9, Whang teaches of a power control method for a mobile station in a mobile communication system (column 1, lines 9-13), comprising the steps of: at a request of a mobile station user, sending a power-down registration request from the mobile station to a base station as many times as a specified maximum attempt sequence until receipt of a response from the base station (column 10, lines 55-65; where the power-down command is transmitted 16 times per frame); and upon failure to receive the response from the base station even after the attempts to send the power-down registration request as many times as the specified maximum attempt sequence, ~~P~~resenting the power-down registration request from the mobile station to the base station as many times as the specified maximum attempt sequence (columns 10 and 11 lines 65-67 and 1-2, respectively; e.g., the process is repeated);

Whang does not specifically teach of a power-off request or where upon receipt of a response from the base station during the resending, performing power-off of the mobile station.

In related art concerning extended sleep mode method in an apparatus, Ericsson teaches where upon receipt of a response from the base station during the resending, performing power-off of the mobile station (column 6, lines 60-63; where the receiving of the "word" corresponds to the "request").

It would have been obvious to a one of ordinary skill in the art at the time the invention was made to combine Whang's power control method with Ericsson's power-off of the mobile station in order to reduce power consumption.

Regarding claims 2, 6 and 11, Whang teaches all the limitations of claims 1. Whang and Ericsson further teach the limitations of claim 4. Ericsson further teaches the step of performing a call processing process upon receipt of an incoming call during the resending step (column 1, lines 15-19; where the system remains in a "stand-by" mode while re-sending).

Regarding claim 3, Whang teaches all the limitations of claim 1. Whang also teaches where upon one of the receipt of the response from the base station and resending the request for the specified maximum attempt sequence (figure 8, items 803 and 805; where the power is lowered once the request is received). Ericsson further teaches where upon receipt of a response from the base station during the resending, performing power-off of the mobile station (column 6, lines 60-63; where the receiving of the "word" corresponds to the "request").

Regarding claims 7 and 12, Whang teaches all the limitations of claims 4 and 9. In addition, Whang teaches where the predetermined retry number is one of 2 and 3 (

columns 10 and 11, lines 65-67 and 1-2, respectively; where the process is repeated amounting to "two" times which is one of the choices provided by the applicant).

3. Claims 5, 8, 10 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over by Whang (Whang et al.; US Patent No.: 6,609,008 B1) in view of Ericsson (Ericsson, Ted; US patent No.: 6,223,047 B1) and in further view of Dent (Dent, Paul W.; Patent No. 6,535,752).

Regarding claims 5, 8, 10 and 13, Whang in view of Ericsson teaches all the limitations of claims 4, 5 and 10.

Whang in view of Ericsson does not specifically teach where the predetermined wait time and where the predetermined wait time is one of 1 and 2 seconds.

In related art concerning power saving in a radio receiver, Dent teaches where the predetermined wait time is one of 1 and 2 seconds (e.g., where the examiner selected 1 second from the choices provided; column 2, lines 47-50; where after "re-measuring" follows the "resend").

It would have been obvious to a one of ordinary skill in the art at the time the invention was made to combine Whang's and Ericsson's power saving method with Dent's timing procedure in order to maintain synchronization in the system.


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**Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angelica Perez whose telephone number is 703-305-8724. The examiner can normally be reached on 7:15 a.m. - 3:55 p.m., Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on 703-308-7745. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the TC 2600's customer service number is 703-306-0377.

  
Angelica Perez  
(Examiner)

  
**NAY MAUNG**  
**SUPERVISORY PATENT EXAMINER**

\_\_\_\_\_  
Nay A. Maung  
(SPE)

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March 3, 2004